

PTO/SB/08A (08-00)

<div style="text-align: right;"> Substitute for form 1449A/PTO </div> <div style="text-align: center;"> INFORMATION DISCLOSURE STATEMENT BY APPLICANT </div> <div style="text-align: center;"> <i>(use as many sheets as necessary)</i> </div>				<i>Complete if Known</i>	
				Application Number	10/628,137
				Filing Date	July 28, 2003
				First Named Inventor	Ben HITT
				Group Art Unit	1631
				Examiner Name	
Sheet	1	of	3	Attorney Docket Number	CORR-004/01US

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FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	†
		Office ³	Number ⁴	Kind Code ⁵ (if known)			
LAC ↓ LAC	11		WO 00/55628	A1	Oxford Glycosciences	09-21-2000	
	12		WO 99/58972	A1	Tsipouras, Petros	11-18-1999	
	13		WO 00/49410	A3	The Government Of the United States of America as represented by the Secretary of the Department of Health and Human Services	08-24-2000	
	14		WO 99/47925	A2	Oxford Glycosciences	09-23-1999	
	15		WO 99/41612		Oxford Glycosciences	08-19-1999	
	16		WO 93/05478	A1	Becton, Dickinson & Company	03-18-1993	

Examiner Signature	<i>Lee H. Cline</i>	Date Considered	9-29-05
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number.

² See attached Kinds of U.S. Patent Documents.

³ Enter Office that issued the document by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

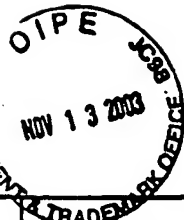
³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
LHC	17	Loging, TW et al., "Identifying Potential Tumor Markers and Antigens by Database Mining and Rapid Expression Screening," Genome Research, 10(9):1393-1402 (September 2000)	
	18	Krishnamurthy, T. et al. "Detection of Pathogenic and Non-Pathogenic Bacteria by Matrix-assisted Laser Desorption/Ionization Time-of-flight Mass Spectrometry," Rapid Comms. in Mass Spectrometry, Vol 10, 883-888 (1996)	
	19	Adam, B-L et al., "Serum Protein Fingerprinting Coupled with a Pattern-matching Algorithm Distinguishes Prostate Cancer from Benign Prostate Hyperplasia and Healthy Men," Cancer Research 62, 3609-3614 (July 1, 2002).	
	20	Li, J. et al. "Proteomics and Bioinformatics Approaches for Identification of Serum Biomarkers to Detect Breast Cancer," Clinical Chemistry 48:8, 1296-1304 (2002).	
	21	Petricion III, E.F. et al., "Use of proteomic patterns in serum to identify ovarian cancer," The Lancet, Vol. 359, 572-577 (February 16, 2002).	
	22	Brown, M.P.S. et al. "Knowledge-based analysis of microarray gene expression data by using support vector machines," PNAS Vol. 97, No. 1, pp. 262-267 (January 4, 2000).	
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Examiner Signature	<i>Lori L. Chen</i>	Date Considered	7-29-03
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UC	28	Pawletz, C.P., "Rapid Protein Display Profiling of Cancer Progression Directly from Human Tissue Using a Protein Biochip," Drug Development Research 49:34-42 (2000).	
	29	Ciphergen European Update, 1:1-4 (2001).	
	30	Kohonen, T. "Self Organizing Maps (Springer 2001), pp. 1-70.	
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	32	Kohonen, T. "Self-Organization and Associative Memory" (Springer 1988), pp. 30-67.	
UC	33	Holland, J.H., "Adaption in Natural and Artificial Systems: An Introductory Analysis with Applications to Biology, Control, and Artificial Intelligence" (MIT Press 2001), pp. 1-31; 89-120.	

Examiner Signature	<i>Lucia C. Law</i>	Date Considered	7-29-05
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		Filing Date	July 28, 2003
		First Named Inventor	Ben A. Hitt
		Group Art Unit	1631
		Examiner Name	Clow, Lori A.
Sheet 1 of 7	Attorney Docket Number	CORR-004/01US	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
LAC	34.	2002/0046198	AI	Hitt	04-18-2002
	35.	2002/0193950	AI	Gavin et al.	12-19-2002
	36.	2003/0129589	AI	Koster et al.	07-10-2003
	37.	2003/0054367	AI	Rich et al.	03-20-2003
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	39.	4,122,343		Risby et al.	10-24-1978
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	41.	5,697,369		Long, Jr. et al.	12-16-1997
	42.	5,716,825		Hancock et al.	02-10-1998
	43.	5,719,060		Hutchens et al.	02-17-1998
	44.	5,790,761		Heseltine et al.	08-04-1998
	45.	5,839,438		Graettinger et al.	11-24-1998
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	47.	5,946,640		Goodacre et al.	08-31-1999
	48.	6,025,128		Veltri et al.	02-15-2000
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	50.	6,157,921		Barnhill	12-05-2000
	51.	6,225,047		Hutchens et al.	05-01-2001
	52.	6,295,514	B1	Agrafiotis et al.	09-25-2001
	53.	6,329,652	B1	Windig et al.	12-11-2001
	54.	6,427,141	B1	Barnhill	07-30-2002
LAC	55.	6,558,902	B1	Hillenkamp	05-06-2003
	56.	6,571,227	B1	Agrafiotis et al.	05-27-2003
	57.	6,579,719		Hutchens et al.	06-17-2003
	58.	6,675,104	B2	Paulse et al.	01-06-2004
V	59.	6,680,203		Dasseux et al.	01-20-2004
	60.	6,844,165		Hutchens et al.	01-18-2005
LAC	61.	6,925,389		Hitt et al.	08-02-2005

Previously considered on 7/11/06 LAC

Examiner Signature	<i>Lori A. Clow</i>	Date Considered	6/15/07
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		Office ³	Number ³ (if known)	Kind Code ³			
LAC ↓	62.		WO 01/20043	A1	Affymetrix, Inc.	03-22-2001	
	63.		WO 01/31579	A2	Barnhill Technologies, LLC	05-03-2001	
	64.		WO 01/31580	A2	Barnhill Technologies, LLC	05-03-2001	
	65.		WO 01/84140	A2	Mischak et al.	11-08-2001	Abstract
	66.		WO 02/059822	A2	Biowulf Technologies, LLC	08-01-2002	
	67.		WO 02/088744	A2	Syn.X Pharma, Inc.	11-07-2002	
	68.		WO 03/031031	A1	Ciphergen Biosystems, Inc. et al.	04-17-2003	
LAC	69.		WO 02/06829	A2	Correlogic Systems, Inc.	01-24-2002	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
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UC	70.	ALAIYA, A. A. et al., "Classification of Human Ovarian Tumors Using Multivariate Data Analysis of Polypeptide Expression Patterns," Int. J. Cancer, 2000, pp. 731-736, Vol. 86.		
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	73.	ATKINSON, E. N. et al., "Statistical Techniques for Diagnosing CIN Using Fluorescence Spectroscopy: SVD and CART," Journal of Cellular Biochemistry, 1995, Supplement 23, pp. 125-130.		
	74.	BABAIA, R. J. et al., "Performance of a Neural Network in Detecting Prostate Cancer in the Prostate-Specific Antigen Reflex Range of 2.5 to 4.0 ng/ml," Urology, 2000, pp. 1000-1006, Vol. 56, No. 6.		
	75.	BAILEY-KELLOGG, C. et al., "Reducing Mass Degeneracy in SAR by MS by Stable Isotopic Labeling," Journal of Computational Biology, 2001, pp. 19-36, Vol. 8, No. 1.		
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	78.	BERIKOV, V. B. et al., "Regression Trees for Analysis of Mutational Spectra in Nucleotide Sequences," Bioinformatics, 1999, pp. 553-562, Vol. 15, Nos. 7/8.		
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UC	80.	CAIRNS, A. Y. et al., "Towards the Automated Prescreening of Breast X-Rays," Alistair Cairns, Department of Mathematics & Computer Science, University of Dundee, pp. 1-5. (1986)		

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¹ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

² Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

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Previously considered on 7/11/06, except
reference 77, now considered. LAC

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9/19/07
LAC

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LAC	81.	CAPRIOLI, R. M. et al., "Molecular Imaging of Biological Samples: Localization of Peptides and Proteins Using MALDI-TOF MS," Analytical Chemistry, 1997, pp. 4751-4760, Vol. 69, No. 23.	
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	84.	CHUN, J. et al., "Long-term Identification of Streptomyces Using Pyrolysis Mass Spectrometry and Artificial Neural Networks," Zbl. Bakt., 1997, pp. 258-266, Vol. 285, No. 2.	
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	90.	DHAR, V., et al., Seven Methods for Transforming Corporate Data Into Business Intelligence, Upper Saddle River, N.J., Prentice Hall, 1997, pp. 52-76.	
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	98.	GEORGE, S. E., "A Visualization and Design Tool (AVD) for Data Mining with the Self-Organizing Feature Map," International Journal on Artificial Intelligence Tools, 2000, pp. 369-375, Vol. 9, No. 3.		
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	103.	GOODACRE, R. et al., "Quantitative Analysis of Multivariate Data Using Artificial Neural Networks: A Tutorial Review and Applications to the Deconvolution of Pyrolysis Mass Spectra," Zbl. Bakt., 1996, pp. 516-539, Vol. 284.		
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	105.	GRAY, N. A. B., "Constraints on 'Learning Machine' Classification Methods," Analytical Chemistry, December 1976, pp. 2265-2268, Vol. 48, No. 14.		
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	107.	HALKET, J. M. et al., "Deconvolution Gas Chromatography/Mass Spectrometry of Urinary Organic Acids - Potential for Pattern Recognition and Automated Identification of Metabolic Disorders," Rapid Communications in Mass Spectrometry, 1999, pp. 279-284, Vol. 13.		
	108.	HASHEMI, R. R. et al., "Identifying and Testing of Signatures for Non-Volatile Biomolecules Using Tandem Mass Spectra," SIGBIO Newsletter, December 1995, pp. 11-19, Vol. 15, No. 3.		
	109.	HAUSEN, A. et al., "Determination of Neopterin in Human Urine by Reversed-Phase High-Performance Liquid Chromatography," Journal of Chromatography, 1982, pp. 61-70, Vol. 227.		
	110.	HESS, K. R. et al., "Classification and Regression Tree Analysis of 1000 Consecutive Patients with Unknown Primary Carcinoma," Clinical Cancer Research, November 1999, pp. 3403-3410, Vol. 5.		
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LAC	113.	JURS, P. C. et al., "Computerized Learning Machines Applied to Chemical Problems; Molecular Formula Determination from Low Resolution Mass Spectrometry," Analytical Chemistry, January 1969, pp. 21-27, Vol. 41, No. 1.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/628,137
		Filing Date	July 28, 2003
		First Named Inventor	Ben A. Hitt
		Group Art Unit	1631
		Examiner Name	Unassigned
Sheet 6 of 7	Attorney Docket Number	CORR-004/01US	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹⁶
Lae	132.	PEI, M. et al. "Feature Extraction Using Genetic Algorithms," Proceedings of the 1st International Symposium on Intelligent Data Engineering and Learning, IDEAL '98, Oct. 1998, pp. 371-384, Springer, Hong Kong.	
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previously considered on 7/11/06
except ref. 155, now considered. etc.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/628,137		
		Filing Date	July 28, 2003		
		First Named Inventor	Ben A. Hitt		
		Group Art Unit	1631		
		Examiner Name	Unassigned		
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Examiner Signature	<i>Lois A. Claw</i>	Date Considered	6/16/07
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PTO/SB/08A (08-00)

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		Application Number	10/628,137		
		Filing Date	July 28, 2003		
		First Named Inventor	Ben HITT		
		Group Art Unit	1631		
Examiner Name					
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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Examiner Signature	<i>Louise L. Lee</i>	Date Considered	7-29-03
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		Application Number	10/628,137		
		Filing Date	July 28, 2003		
		First Named Inventor	Ben HITT		
		Group Art Unit	1631		
		Examiner Name			
Sheet	3	Of	3	Attorney Docket Number	CORR-004/01US

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ²	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ³
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Examiner Signature	<i>Luc A. Clow</i>	Date Considered	7-29-05
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PTO/SB/08A (08-00)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/628,137
		Filing Date	July 28, 2003
		First Named Inventor	Ben A. Hitt
		Group Art Unit	1631
		Examiner Name	Clow, Lori A.
Sheet 1 of 7	Attorney Docket Number	CORR-004/01US	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
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Previously considered on 7/11/06 LAC

Examiner Signature	<i>Lori A. Clow</i>	Date Considered	6/15/07
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		Office ¹	Number ² (if known)	Kind Code ³		
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LAC	70.	ALAIYA, A. A. et al., "Classification of Human Ovarian Tumors Using Multivariate Data Analysis of Polypeptide Expression Patterns," Int. J. Cancer, 2000, pp. 731-736, Vol. 86.				
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* For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

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reference 77, now considered. LAC

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LAC	81.	CAPRIOLI, R. M. et al., "Molecular Imaging of Biological Samples: Localization of Peptides and Proteins Using MALDI-TOF MS," Analytical Chemistry, 1997, pp. 4751-4760, Vol. 69, No. 23.	
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		First Named Inventor	Ben A. Hitt
		Group Art Unit	1631
		Examiner Name	Unassigned
Sheet 5 of 7	Attorney Docket Number	CORR-004/01US	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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previously considered on 7/14/06
except ref. 155, now considered. etc.

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Examiner Signature	<i>Lois A. Claw</i>	Date Considered	6/15/07
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
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